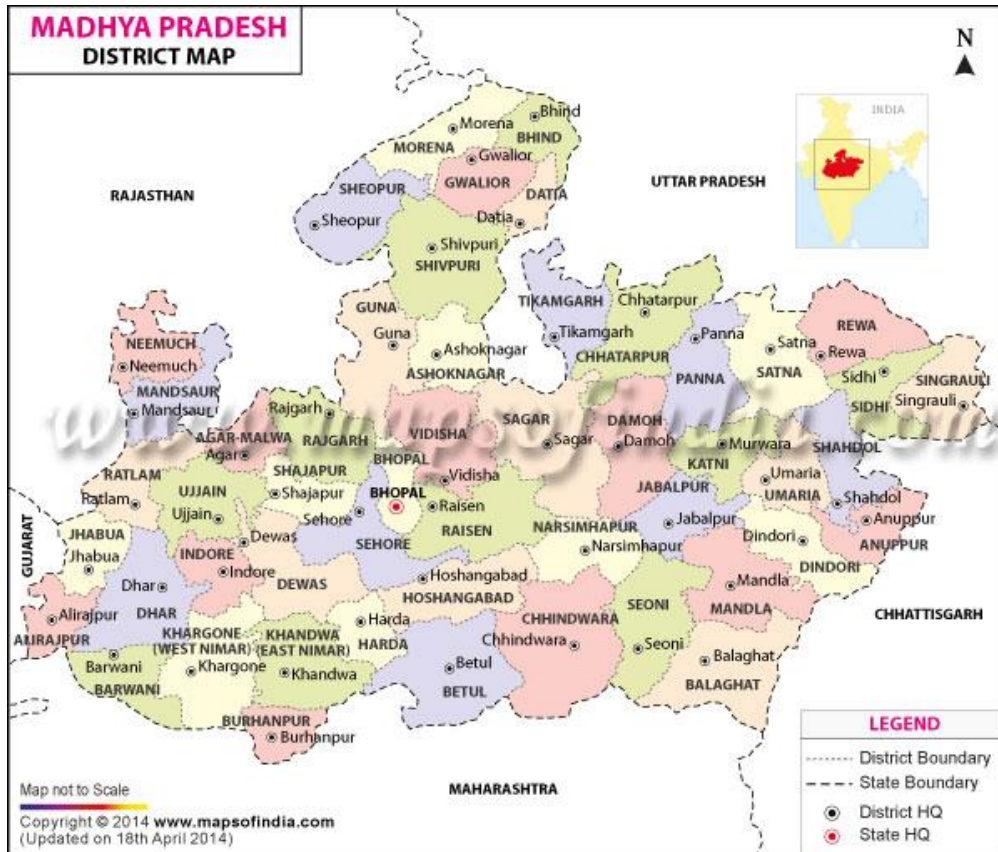


# JOINT INSPECTION TEAM (JIT) REPORT

## MADHYA PRADESH



बागवानी मिशन  
Horticulture Mission

**NHM - Mission for Integrated Development of Horticulture (MIDH)**

**Ministry of Agriculture & Farmers Welfare**

Department of Agriculture, Cooperation & Farmers Welfare

Krishi Bhawan, New Delhi-110001

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**Review of National Horticulture Mission and other Central Schemes of Horticulture for  
Madhya Pradesh  
(Year 2015-16)**

**The Joint Inspection Team (JIT) members :**

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	2. Shri Mandloi, Assistant Director of Horticulture, Distt- Harda
	3. Shri L. Routkar, Dy Director of Horticulture, Distt- Betul
	4. Shri Rajendra Rajouria, Dy Director of Horticulture, Distt- Chhindwara

**JIT Visit Schedule:**

Day	Date	Activities Covered	Dist. Covered	Scheme	Remarks
1.	27.1.2016	Meeting with Mission Director, Horticulture, M.P.	-	NHM	Physical & financial achievements were discussed with Mission Director and other officers of the state.
1.	27.1.2016	Area Expansion of fruits & vegetables,, Pack Houses, Vermiconposting units, Mulching with drip irrigation in vegetables	Hoshangabad	NHM & RKVY	Field visit of Hoshangabad distt to verify the activities and stayed at Hoshangabad.
2.	28.1.2016	Area Expansion, Poly houses, Nurseries, Organic Cultivation.	Hoshangabad	NHM & RKVY	
2	28.1.2016	Area Expansion of Vegetables	Harda	NHM	Stayed at Harda.
3.	29.1.2016	Area Expansion of fruits, Nursery etc. – Meeting with KVKs Staff.	Harda	NHM	JIT visited KVK, Harda also to discuss the Hort. activities of the district.
3.	29.1.2016	Area Expansion of fruits & Pack Houses	Betul	NHM	Stayed at Betul.
4.	30.1.2016	Tissue Culture Unit, Area Expansion of fruits, Nursery, Onion Storage	Betul	NHM	-
5.	30.1.2016	Area Expansion of Orange & Pomegranate, Poly Houses, Vegetable Cultivation alongwith drip & mulching.	Chindwara	NHM & RKVY	Field visit of Chindwara distt to verify the activities and stayed at Chindwara.
6.	31.1.2016	Nursery and Area expansion of fruits.	Chindwara	NHM & RKVY	Visit of nursery and fruit plantation .

## Observations and Suggestions of JIT:

JIT has recorded the following observations on implementation of Centrally Sponsored Horticulture Development Programmes in the Hoshangabad, Harda, Betul and Chindwara districts of Madhya Pradesh during its visit from January 27-31, 2016. JIT has covered the prominent horticultural activities in the area under observation including Model Nursery, Vegetable and Fruit Production, Protected Cultivation, Vermi compost Units, Nurseries, Disease Free Planting Material Production Units (Tissue Culture Labs), Post Harvest Management units like Pack House etc. and Micro-irrigation systems like drip system etc. The major findings of JIT are listed below:

1. The farmers face the problem of the scarcity of genuine disease free planting material because the accredited nurseries in the region are inadequate in number.
2. More number of training programmes needs to be conducted so that the farmers can be made aware of the advancement in the field of Horticulture crop production. Training must be imparted to the farmers especially in the realm of Protected Cultivation like the use of poly houses in vegetable crop production.
3. The proper demonstration of plots for IPM/INM including the complete package of practices should be arranged for the farmers' upliftment of knowledge with the help of KVKs & Research Centres.
4. In Hoshangabad & Chindwara districts, the expansion of spices crops may generate good results with the introduction of seed spices like Fenugreek, Nigella, Coriander and Fennel.
5. JIT undertook the visit of various high density guava farms in the region and it is found that the orchards are well maintained and they have uniform and desirable growth.
6. The model nursery of Sukhtawa village in Kesla block of Hoshangabad district has got due accreditation and it has good number of planting material for sale. The nursery also has well managed mother blocks.
7. The farmers of the region have also opted for organic cultivation of chilli, tomato and turmeric but the weed control is one of the major constraints that they face. The remedy for the same is required at the earliest.
8. Chilli cultivation under drip irrigation with polythene mulch in Harda district has been considerably expanded and the farmers of this region are proactive in this regard.
9. It is observed that the farmers got constructed the pack houses by the help of NHM but the pack houses are not with the conformity of the specifications and standard norms and most of them are not being used by the farmers for the said purpose.
10. Govt. Nursery at Sitadongari in Chicholi block of Betul district have a good number of mango seedlings *var.* Amarpali, Langara and Dashahri and the mother block is also being maintained properly but the accreditation has to be taken.
11. In Betul district, ITI Bio-tech which is funded by NHM in the year 2012-13 is doing magnificent job. They have a very good collection of various planting material like Banana, Gerbera, Sugarcane & Pomegranate. The nursery produces G-9 variety of Banana and Pant Prabaht variety of Guava-- which is a produced by this nursery-- has been found to be the most suitable one for Betul district. They prepare around 50 lac

planting material in a year. Virus indexing is also being done through VVI Trichy. Their Tissue Lab has duly been accredited and the nursery is under the process of accreditation.

12. In the tribal area of Betul district, it is felt that the tribal farmers need good package of practice in form of training, demonstration, educational tour for exposure so that their enhancement of knowledge could match up with the advancement of recent horticultural technologies and the same can suitably be undertaken by the Department of Horticulture.
13. Many of the Orange and Pomegranate field visited showed lack of canopy management practices. The extension officers and the RHEOs should have been properly trained so that the information regarding all the advanced practices may reach at the farmers end. Some of the fruit plantations visited were very old and senile which could be rejuvenated for increasing the production.
14. The department does not have sufficient staff for field work ; hence more human resources should be provided so as the timely supply of the incentives may reach the farmers on time.
15. Area expansion programmes in seed spices like fenugreek, fennel and cumin can be promoted in Hoshangabad & Chindwara district. The agricultural universities, KVKs in collaboration with state departments may take initiatives for supplying the quality seeds for cultivation. More area under protected cultivation for chilli, papaya, vegetables can also be recommended. Moringa cultivation is also gaining momentum so more and more farmers may be encouraged to espouse cultivating such crops. In case of tomato, cucurbitaceous and solanaceous crops insect proof net houses can be thought of as it may control the pest and disease problems.
16. The farmers of tribal regions visited were unaware about drip and mulch methods. The RHEOs should make arrangements for field visits to nearby areas so that the farmers can be convinced to adopt better technologies for better yield.
17. In some tribal areas high density mango plantations were seen but in between wheat were grown which is not a recommendable integrated model. This shows that the field staff are also lacking of knowledge about various integrated models to be adopted. More training programmes may be given to the field staff so that technologies may properly be disseminated among farmers.

### **Recommendations**

- The area under spices like Fenugreek, Coriander, Garlic and Chilly has to be promoted considering the climatic adaptability and adoption by the farmers in Hoshangabad, Betul and Chindwara districts.
- There is a need to multiply quality seeds / planting material of recommended varieties of Garlic for all the districts visited. The district Chindwara and Betul may be selected for production of quality seeds / planting material with support from Krishi Vigyan Kendra.
- Demonstrations on INM / IPM with complete module should be given on farmers field with collaboration from KVKs to set the desired result and celebrate a field day.
- Mulching with drip irrigation should be promoted in the vegetable clusters of Hoshangabad, Betul and Chindwara districts.

- The storage of onion (construction of low cost onion storage) has to be promoted in the onion growing belt in all the districts.
- Rejuvenation in old / saline orchards in Hoshangabad & Betul districts should receive focus.
- The Govt. nurseries are not functioning well in Harda district. They have to be maintained properly to supply quality planting material of fruit plants. Such Government nurseries are required to be strengthened under RKVY.
- Cluster approach is not being followed in the districts like Harda and Betul. There is a need to promote the major horticulture crops in the form of cluster.
- Apart from tractors, and power tillers, machineries like mulch laying machine, planting and digging equipments, self propelled horticulture machineries and plant protection equipments have to be promoted in all the districts for increasing the efficiency.
- The protected structures specially Poly Houses for vegetable and flower production has received least attention in Hoshangabad, Harda and Betul districts. Special efforts should be carried out by Horticulture Departments in the districts for promotion of protected cultivation.
- Creation of water structures like community Tanks / on Farm Ponds etc. needs to be promoted specially in tribal areas of Betul districts.
- Pack Houses are not being utilized properly in Hoshangabad and Betul districts. There is a need to promote Integrated Pack Houses in the clusters of vegetable and fruit crops.
- Specific training / exposure visits are required in the cultivation of vegetables and flowers under protected structures.
- Fruit & Vegetable processing units and Market Infrastructures need specific attention in Hoshangabad & Chindwara districts considering the sizeable area under fruits and vegetables.
- The area under Pomegranate is being covered under RKVY in the districts but the farmers need specific training on pruning management of pomegranate to get the desired result.

## **Introduction – Profile of Madhya Pradesh**

### **Geography & Climate**

Madhya Pradesh has a subtropical climate. Like most of north India, it has a hot dry summer (April–June), followed by monsoon rains (July–September) and a cool and relatively dry winter. The average rainfall is about 1,371 mm (54.0 in). It decreases from east to west because monsoon wind moves from east to west and drained clouds in eastern parts takes less quantity of water vapours with them to western parts. The south-eastern districts have the heaviest rainfall, some places receiving as much as 2,150 mm (84.6 in), while the western and north-western districts receive 1,000 mm (39.4 in) or less.

Madhya Pradesh, with an area of 3, 08, 000 sq.km. is the second largest state in India after Rajasthan. It is a part of peninsular plateau of India lying in north central part, whose boundary can be classified in the north by the plains of Ganga-Yamuna, in the west by the Aravali, east by the Chhattisgarh plain and in the south by the Tapti valley and the plateau of Maharashtra.

The topography of Madhya Pradesh is defined by the Narmada Sone Valley. It is a narrow and long valley extending through almost the whole of the state from east to west. Sone valley forms the upper part; Shahdol and Sidhi districts lie in this valley. The lower part

forms the Narmada valley. It has an average elevation of 300 m above MSL and is covered with alluvial soil. Jabalpur, Mandla, Narsinghpur, Hoshangabad, Raisen, Khandwa, Khargone and Barwani districts lie in this region. The Sone valley is narrower than Narmada valley and alluvial deposit is also comparatively poor and thin, therefore Narmada valley is more important than Sone valley for agricultural activities. To the north of this valley lie the Central Highlands, to the south the Satpura-Maikal ranges and to the south-east, the eastern plateau. These three form the natural physiographic regions-into which the state is divided. The Central Highlands are spread between the Narmada-Sone valley and the Aravali ranges to the west in a triangular form. The highlands slope towards the north and drain into the Yamuna. The central highlands region in the state includes the following four uplands:

Like other parts of India, Madhya Pradesh also has three major seasons – Summer, Monsoon and Winter. During summer (March-June), the temperature in the entire state ranges above 29.4°C. In general, the eastern parts of Madhya Pradesh are hotter than the western parts. The regions like Gwalior, Morena and Datia record temperature of over 42°C in the month of May. The humidity is relatively very low and the region usually experiences frequent mild dust storms. The south-west Monsoon usually breaks out in mid June and the entire state receive a major share of its rainfall between June and September. The south and south-east regions tend to experience a higher rainfall whereas the parts of north-west receive less. Mandla, Balaghat, Sidhi, Jabalpur and other extreme eastern parts receive more than 150 cm rainfall. The districts of western Madhya Pradesh receive less than 80 cm rainfall.

Agriculture policy recognizing the role of agriculture in the overall development of the state economy, the government of Madhya Pradesh has taken several pragmatic, futuristic initiatives to drive its growth. Agriculture in the state comprises a conglomerate of several farm and non-farm activities, which support livelihood of those dependent on it. Organic farming if widely implemented could play a vital role in the state agriculture. The state government has reverberated a comprehensive and cohesive commitment to convert the existing agriculture in to a profitable venture for millions of small holders, marginal farmers, landless and agriculture labours. Serious efforts on various issues related to resource management, market reforms, technology generation and dissemination, breaking barriers of yield through effective and harmonious research and development efforts, attaining a healthy and upwardly spiralling growth have been made. MP State Organic Farming Policy intents to create, facilitate, and strengthen the enabling environment for developing integrated value chains of the organic farm produce encompassing end-to-end solutions for both primary producers and consumers. The policy entails on “farm – to – fork” approach reassuring abundant supply of “healthy food for all”.

### **Agri-Marketing Infrastructure in the State**

The APMC Act is functional in the state and the key features include provisions for setting up private mandis, direct procurement/sale from farmers’ fields, contract farming, setting up and promoting agricultural marketing extension units etc. Mandies: Madhya Pradesh State Agricultural Marketing Board (Mandi Board) is the nodal agency in charge of controlling and supervising the purchase, sale, storage, processing and establishment of



markets for agricultural produce in the state. There are about 472 Agricultural Produce Market Committees in Madhya Pradesh with 224 Primary Markets, 239 secondary markets and 9 unregulated markets. Status of Logistics & Warehousing Facilities in the State: Madhya Pradesh Warehousing and Logistic Corporation (MPWLC) had a total storage capacity of 54.73 lakh MT out of which 1.48 lakh MT is MPWLC owned, 6.24 lakh MT is hired and about 33.68 lakh MT is under Joint Venture projects. The Central Warehousing Corporation (CWC) also has its own warehouses of about 5.29 lakh MT capacity in the state. In addition, total storage capacity owned by FCI is about 3.37 lakh MT in the state. Cold Storages: The state has about 47 cold storages with a total capacity of approximately 1.56 lakh MT. Abattoirs/Slaughter Houses: As per APEDA, there is no approved abattoirs-cum-meat processing plant/abattoir in Madhya Pradesh.

### Madhya Pradesh Land Use

Land use Pattern of Madhya Pradesh			
S. No.	Particulars	Area (Lakh Ha.)	Percentage of total Geographical Area
1	Forest	85.85	27.91
2	Land not available for cultivation	33.64	10.94
3	Permanent pastures and grazing land	13.41	4.36
4	Land under miscellaneous tree	0.20	0.06
5	Culturable wasteland	11.75	3.82
6	Fallow Land (old and current)	11.92	3.88
7	Net sown area	150.78	49.03
	Total	307.55	100

4/25/2013

3

### Potential of Horticulture:

Madhya Pradesh is producing about 19.77 m MT of horticulture produce from an area of 1.20 m ha. and accounts for 7.1% of total horticulture production of the country. The major share of horticulture produce is from vegetables (65.8%) and fruits (28.8%).

- During 2013-14, 2.82 lakh MT of fruits have been traded in organized markets with average price of Rs. 19.94/Kg.
- Similarly, 15.86 lakh MT of vegetable have been traded in organized markets with average price of Rs. 10.67/ Kg.

## **FRUITS**

### **Banana**

- Madhya Pradesh is the sixth largest banana producing state and accounts for 5.8% of the total production of the country.
- State is producing about 1.70 m MT of banana from an area of about 0.03 m. ha. with the productivity of 66.0 t/ha which is the highest among banana producing states in the country.
- The major banana producing belts in the State are Kukshi, Dhar and Balaghat.
- Varieties of banana recommended for the state are Dwarf Cavendish, Grand Naine and Red Banana.
- During 2013-14, 2.23 lakh MT of banana have been traded in organized markets with average price of Rs. 10.68/Kg.

### **Citrus**

- Madhya Pradesh is the third largest citrus producing state and accounts for 11.1% of the total production in the country.
- State is producing 1.24 m MT of citrus from an area of 0.07 m ha. with the productivity of 17.3 t/ha.
- Madhya Pradesh is the second leading producer of orange mandarin after Punjab and accounts for 26% of the total production of orange mandarin in the country.
- State is producing about 0.89 m MT of oranges from an area of about 0.05 m. ha. with the productivity of 17 t/ha.
- Major orange (Mandarin) producing belts in the state are Jabalpur, Narsinghpur, Hoshangabad, Harda, Bhopal, Sehore, Raisen, Vidisha, Sagar, Damoh, Bhind, Morena, Sheopur, Gwalior, Chattarpur, Datia, Tikamgarh, Panna, Betul, Chhindwara, Shivpuri, Guna, Ratlam, Ujjain, Jhabua, Dhar, Indore, Dewas and Khargone.
- Recommended varieties of orange mandarin in the State are Nagpur Mandarin and Kinnow.
- State accounts for 8.0% of total production of lime/lemon in the country.
- Production of Lime/lemon is concentrated in Balaghat, Rewa, Panna, Seoni, Umaria, Katni, Jabalpur, Narsinghpur, Hoshangabad, Harda, Bhopal, Sehore, Raisen, Vidisha, Sagar, Damoh, Sheohar, Gwalior, Datia, Tikamgarh, Betul, Chhindwara, Shivpuri, Guna, Ratlam, Dhar, Ujjain, Indore, Dewas and Khargone.
- Cultivars of lime/lemon in the state are Kagzi lime, Pramalini, Vikram, Balaji, Eureka, Kagzi Kalan and Assam Lemon.
- During 2013-14, 7351 MT of citrus have been traded in organized markets with average price of Rs. 13.08/ Kg.

## **Guava**

- Madhya Pradesh has emerged as the leader in production of guava overtaking Maharashtra and accounts for 22.9% of the total production of Guava in the country.
- State produces 0.84 m MT of Guava from an area of 0.02 m ha having productivity of 37.6 MT/ha. which is the highest among guava producing states in the country.
- Main guava producing belts in the State are Balaghat, Rewa, Satna, Gwalior, Panna, Sepni, Umaria, Katni, Shivpuri, Shoopur, Betul, Chindwara, Guna, Ratlam, Ujjain, Jhabua, Dhar, Indore, Dewas, Khargone and Kukshi.
- Recommended varieties of guava for the State are Sardar (1-49), Allahabad Safeda, Chhittidar, Lalit, Shweta and Dharedar.

## **Papaya**

- Madhya Pradesh contributes 7.7% of papaya in the total production in the country.
- State produces 0.43 m MT of papaya from an area of 0.01 m ha having productivity of 33.0 MT/ha.
- The production of papaya is concentrated in Balaghat, Jabalpur, Narsinghpur, Hoshangabad, Harda, Bhopal, Sahore, Raisen, Guna, Vidisha, Sagar, Damoh, Bhind, Morena, Kukshi and Dhar.
- Cultivars of papaya in the state are Coorg, Honey Dew, Pink Flesh Sweet, Pusa Co-2, Sunrise Solo and Taiwan.
- During 2013-14, 17103 MT of papaya have been traded in organized markets with average price of Rs. 16.16/ Kg.

## **Pomegranate**

- Madhya Pradesh is the sixth largest pomegranate producing State and accounts for 1.9% of total production of pomegranate in the country.
- State produces about 0.02 m MT of pomegranate from an area of 0.02 m ha with productivity of 10.6 MT/ha.
- Production of pomegranate is concentrated in the belts of Balaghat, Bhopal, Sehore, Raisen, Guna, Vidisha, Sagar, Damoh, Bhind, Morena, Shivpuri Ratlam, Ujjain, Dhar, Indore, Dewas, Khargone, Kukshi and Jhabua.
- Cultivars of pomegranate in the state are Bhagwa and Jyoti.
- During 2013-14, 1867 MT of pomegranate have been traded in organized markets with average price of Rs. 43.50/ Kg

## **VEGETABLES**

### **Brinjal**

- State produces about 8.0% of total brinjal produce of the country with the production of 1.07 m MT from an area of 0.04 m ha having productivity of 25 MT/ha.
- Production of brinjal concentrated in Jabalpur, Narsinghpur, Damoh, Sagar, Hoshangabad, Chhattarpur, Satna, Videsha, Raisen, Barwani, Rattlam, Bhopal, Garda, Ujjain, Dewas, Rewa and Mandsaur.
- Varieties of brinjal recommended in the State are Pusa-Purple long, Purple Cluster, Ankur, Hybrid-5,6, !! HR, Bengaluru, !!VR, Varanasikashi Sandesh, Kashi Komal, Hissar PH-4, BR-112, Hissar Shymal, GBH-1, Anand Brinjal Small Round and Pant Samarat.
- During 2013-14, 7212 MT of brinjal have been traded in organized markets with average price of Rs. 7.21/ Kg

### **Cabbage**

- Madhya Pradesh accounts for 7.0% of the total production of cabbage in the country.
- State produces about 0.58 m MT of cabbage from an area of 0.02 m ha with productivity of 29.4 MT/ha. which is highest among the cabbage producing states in the country.
- Major cabbage producing belts in the State are Jabalpur, Sagar, Tikamgarh, Rewa, Satna, Vidisha, Rajgarh, Indore, Dhar, Ratlam, Bharwani, Shahjapur, Dewas Bhopal and Chhindwara.
- Cultivars of cabbage are Pusa-Ageti, Drum Head and Golden Acre.
- During 2013-14, 8778 MT of cabbage have been traded in organized markets with average price of Rs. 8.34/ Kg.

### **Cauliflower**

- Madhya Pradesh is the fourth largest producer of cauliflower and accounts for 8.0% of the total production of cauliflower in the country.
- State produces about 0.70 m MT of cauliflower from an area of 0.03 m ha with productivity of 28.1 MT/ha which is the highest among the cauliflower producing States in the country.
- The production of cauliflower is concentrated in the belts of Betul, Chhindwara, Jabalpur, Sagar, Tikamgarh, Rewa, Satna Vidisha, Rajgarh, Indore, Dhar, Ratlam, Dewas, Bhopal and Shahjapur.
- Recommended varieties of cauliflower in the State are Pusa-snowball K-t, KT-25, Himjyoti and Hissar-1.
- During 2013-14, 14488 MT of cauliflower have been traded in organized markets with average price of Rs. 8.14/ Kg.

## **Okra**

- Madhya Pradesh contributes about 5.0% of okra to the total production of okra in the country.
- State produces about 0.31 m MT of okra from an area of 0.03 m ha with productivity of 11.5 MT/ha.
- Major okra growing belts in the State are Jabalpur, Sagar, Hoshangabad, Vidisha, Bharwani, Ratlam, Shajapur and Bhopal.
- Cutivars of Okra in the State are Pusa-Sawani, A-4, Perkins Long Green, Arka Anamika, Varsha Uphar, Hissar-Uphar, Unnat and HBH-142.
- During 2013-14, 2306 MT of okra have been traded in organized markets with average price of Rs. 11.97/ Kg.

## **Onion**

- State is the second largest onion producing state and accounting for 15.0% of total production of onion in the country. Madhya Pradesh is producing about 2.80 m MT of onion from an area of 0.12 m MT with the productivity of 24.1 t/ha. which is second highest among the onion producing states in the country.
- The major onion producing belts in the state are Shajapur, Jabalpur, Indore, Khandwa, Ujjain, Reeva, Bhopal, Dhar, Khargone, Mandsaur and Ratlam
- Recommended varieties of onion in the State are Pusa-White Flat, White Round, Madhvi, Ratnar, Agrifound-Dark Red, Light Red, NHRDF-Red, Agrifound White, Maharashtra N-53, Phule-Samarth, Survarna, Safed, Hissar-2, Bhima Red and Bhima, Shakti, Shweta.
- During 2013-14, 6.69 lakh MT of onion have been traded in organized markets with average price of Rs. 7.76/ Kg.

## **Peas**

- Madhya Pradesh is the second largest producer of peas and accounts for 12.3% of total production of peas in the country.
- State produces about 0.47 m Mt of peas from an area of 0.06 m. ha. having productivity of 8.4 MT/ha.
- Major peas growing belts in the state are Ujjain, Shahjapur, Jabalpur, Dewas, Gwalior, Sagar, Vidisha and Morena.
- Recommended varieties of peas in the State are Bonneville, Arkel and Pusa-Pragati.
- During 2013-14, 18319 MT of peas have been traded in organized markets with average price of Rs. 27.14/ Kg.

## **Tomato**

- Madhya Pradesh is the third largest tomato producing State and accounts for 10.3% of total production of tomato in the country.

- State produces about 1.94 m MT of tomato from an area of 0.07 m ha with productivity of 29.5 MT/ha which is the second highest among tomato producing state in the country.
- Production of tomato is concentrated in Ratlam, Indore, Khargone, Indore, Jhabua, Ujjain, Sagar, Raisen, Bhopal, Shahjapur, Jabalpur, Chhindwara, Satna, Vidisha and Bhopal.
- Cultivars of tomato in the State are Pusa-120, Ruby, Hyvrid-4, Arka Ananya, Arka Vikas, Abha, Saurabh, Kashi Hemant, HS-101, 102, Lalit and Arun.
- During 2013-14, 5.37 lakh MT of tomato have been traded in organized markets with average price of Rs. 10.82/ Kg.

### **Potato**

- Madhya Pradesh is the fourth largest potato producing State accounting for 6.0% of total production of potato in the country. State produces 2.32 m MT of potato from an area of 0.11 m ha. with the productivity of 21.1 t/ha.
- The major potato producing belts in the state are Shajapur, Jabalpur, Indore, Chhindwara, Satna, Diwas, Morena, Sagar, Damoh, Ujjain, Bhopal, Khandwa, Dhar, Khargone, Mandsaur and Ratlam.
- Major potato producing belts in the State are Kufri-Chandramukhi, Jyoti, Lauvkar, Badshah, Pukhraj, Surya, Himsona, Sada Bahar, Girdhari and Chipsona-4.
- During 2013-14, 1.34 lakh MT of potato have been traded in organized markets with average price of Rs. 11.18/ Kg.

### **SPICES**

- Madhya Pradesh is the sixth largest producer of spices and accounts for 7.7 % of total production of spices in the country.
- State produces about 0.45 m. MT of spices from an area of 0.30 m ha. with productivity of 1.6 MT/ha. .
- During 2013-14, 17.75 lakh MT of spices have been traded in organized markets with average price of Rs. 42.44/Kg.

### **FLOWERS**

- Madhya Pradesh is the third leading producer of loose flowers accounts for 11.4% of total production of flowers of the country.
- State produces about 0.20 m MT of loose flowers from an area of 0.02 m ha.

## District- Hoshangabad

Hoshangabad is situated at the heart of the Madhya Pradesh. The Holy River Narmada flows across the district from east to west and is called the lifeline of Madhya Pradesh.

The district Hoshangabad was renamed after Hoshangshah Ghouri-II, the King of Mandu in the beginning of 15<sup>th</sup> century AD. Early man during Stone Age lived around Hoshangabad, which is evident by its historical back ground shown by excavations made on the rivers of Narmada, Doodhi, Tawa, Denwa, Ganjal Palakmati etc. The remains of stone civilization in the forms of cave paintings may be traced out in the rock shelters of Adamgarh hills. Pandavas passed their expulsion period in the Hoshangabad district at Pachmarhi. King Banasur, a daemon had his capital at Sonitpur in the district Hoshangabad. Now it is known as Sohagpur. This area was under the Nands, Mauryas, Shakash, and Rashtrakutas of south, Khilji Sulatans, Gond Rajas, Mughal Empire and Appa Saheb in the past.

Economy of the district is almost dependent on the agriculture. There are agricultural based small scale industries are established like Soya Oil, Flour Mill, Poultry farming, Milk co-operative societies (Dairy), vegetables Farming etc.

### Geographical features

The district Hoshangabad is situated in central part of Madhya Pradesh, comprising of Narmada valley and Satpura ranges. It lies between 21.54 to 22.59 longitudes and 76.46 to 78.42 latitude at the height of 331 Meters from the sea level. It is in the form of uneven belt and spread to the south side of Narmada valley. In the east of district Hoshangabad there are famous Satpura Hill with the highest peak of Madhya Pradesh called Dhoopgarh. It is almost a 4500 feet high from the sea level. There is a famous hill Station called Pachmarhi with different species of flora and fauna. Now whole Satpura Hills has been taken under Satpura National Reserved Park. District Hoshangabad has long spread of fertile agriculture land. Agriculture is the main source of Economy.

### Boundaries

Narmada makes northern boundary of the district Hoshangabad. Dudhi River makes the north eastern boundary of the district. District Raisen and Sehore are situated in the north. Whereas districts Hoshangabad, Harda and Chhindwara are situated in the south and south west. Hoshangabad is blessed with the rivers Narmada, Dudhi, Tawa, and Denwa Ganjal.



## **Forest Products**

Among the forest area, 38% are teak forest, 36% mixed forest and 26% other type of wood forest. Teak Wood, Rose Wood, Goose Berry, Lendia, Achar, Kusum, Ringhha, Haldu, Tinsa, Palash, Beel, tendu, Jhiriya, Bamboo, Mahua, Sarrai, etc. are main forest products of the district.

## **Agriculture and Industries**

The holy river Narmada and its tributaries flow in the area and because of Tawa Dam command the land is very fertile. Wheat is produced in the one third of the district where as Jawar, Channa, Til, Cotton, Alsi, Tuwar are other important crops of the area.

## **Main Irrigational Projects**

River Tawa is the boon for this District almost one lakh acre land is irrigated with the Tawa Dam which is built on river Tawa. Because of Tawa Dam, Dokrikheda minor dam, major part of the District is irrigated through canal system. It flows almost 150 Km. east-west span of land area.

## **Main Industries**

This district has many important large/medium industries like security paper Mill, Central India Plywood Limited, Soyabean plants at Pipriya, Seoni Malwa and Itarsi including a Dal Mill and a flour Mill at Pipariya. It has a Railway Sleeper Factory at Bankhedi and an Ordinance Factory at Itarsi. A small wheat flour mill is situated at Semri Harchand.

## **Socio - Cultural features**

Population of the District according to census 2001 was 1085011. Hindu population is more than that of the Muslims. Some people worship the holy river Narmada, People even go for pilgrimage of river Narmada. In Hoshangabad – Ramji Baba, in Seoni Malwa- Bheelat Baba and in Kesla – Bhagdeo are worshiped. Shivratri, Nagadwari, Bandrabhan, Ramji Baba, Bheelat Deo are the main religious fairs. Most of the people belong to the Hindu religion. There are a number of sub castes & tribes in the district viz. Gond, Raj Gond, Pardhan, Bhariya, Meena, Dhanuk, Kanwar, Bhoomiya, Kole, etc. These tribes are involved in collecting wood; forest produces and agricultural produces. Gond enjoy the folk dance such as Dandaras, Karma, Reena, Sua and sela etc. Raghuwanshi, Purviya, Gurjar, Kurmi, Lodhi, Kirar, Meena and Mali are the main agriculture castes.

## **Socio - economic features**

The economy of the district is totally based on agriculture. Most of the part of this district is situated on the banks of holy river Narmada. The complete district is irrigated



through canals by Tawa Dam & the crop yield is 131%. Soybean, Wheat, Pulses, Rice, Sugarcane are the major crops. Two sugar industries in Bankhedi & Pipariya blocks strengthen the economy & now the farmers are getting more by sowing sugarcane. In Seonimalwa, a soybean plant is functioning. In Hoshangabad, Central Proof Establishment, Ayudhnagar is a Govt. of India Enterprise. Security Paper Mill is the only press produces currency paper in india. Along with this Pachmarhi is the only tourist spot of the district. Hoshangabad is also a religious city, pilgrims from all over India come to take a dip in the holy Narmada.

**Progress of the projects under NHM (MIDH) and RKVY**

S.No.	Name of Components	Year (2005)	Year (2015)
<b>Mission Plan (MIDH)</b>			
1.	Orange Area Expansion (ha.)	50.000	91.000
2.	Spices Area Expansion (Chilly) (ha.)	176.000	323.000
3.	Hi-Density Plantation ( Area Expansion) (ha.)	-	29.550
4.	Flower Area Expansion (ha.)	-	16
5.	Pack House (No.)	-	3
6.	Poly House (No.)	-	7
7.	a. Vermi-compost Unit b. Vermi-compost Unit (Conservation of Narmada Pollution )	-	30
8.	Construction of Onion Storage House (No.)	-	9
9.	Plastic Mulching (ha.)	-	34.000
10.	Tractor with Rotavator (No.)	-	4
11.	Rejuvenation of Old Orchard (ha.)	123.000	340.000
<b>RKVY</b>			
1.	Pomegranate Area Expansion (ha.)	-	100.000
2.	Construction of Onion Storage House (ha.)	-	9
3.	Plastic Crates (No.)	-	18256

Physical and Financial Target & Achievements Under MIDH for the year 2014-15								
District - Hoshangabad							(Rs. In lakh)	
S. No.	Item	Unit	Description	Rate of assistance	Target		Achievement	
					Phy	Fin	Phy	Fin
1	Production of planting material							
	i) Upgrading nursery infrastructure to meet accreditation norms	No	Public-	10.000	1.00	10.000	1.00	9.996
2	Seed production for vegetables and spices							
	a) Open pollinated crops- (Vegetable)	Ha	Public-	0.350	17.00	5.950	-	8.159
		Ha	Private-	0.1225		0.000	-	
3	Establishment of new gardens (Area expansion)						-	
	i) Banana (TC)							
	a) Integrated package with drip irrigation.	Ha		0.900	25.00	22.500	25.00	22.500
	b) Without integration	Ha		0.375		0.000	-	-
	c) Maintenance	Ha		0.125	50.00	6.250	-	-
	ii) Ultra high density (Meadow orchard)	Ha		-	-		-	-
	a) With drip irrigation (Guava)	Ha		0.480	2.50	1.200	1.50	0.720
	iii) High density planting (mango, guava, litchi, pomegranate, apple, citrus etc).	Ha						
	a) Integrated package with drip irrigation-Mango	Ha	Plantation-	0.360	15.00	5.400	6.50	2.340
	b) Without Integration-Mango	Ha	Plantation-	0.240		0.000		
		Ha	Mant.(1)-	0.080	5.00	0.400	3.00	2.340
		Ha	Mant.(2)-	0.080	3.00	0.240		
	a) Integrated package with drip irrigation-Guava	Ha	Plantation-	0.360	10.00	3.600	6.50	0.240
	b) Without Integration-Guava	Ha	Plantation-	0.240		0.000		
		Ha	Mant.(1)	0.080	10.00	0.800	5.25	0.420
		Ha	Mant.(2)-	0.080	1.00	0.080		
	vi) Fruit crops other than cost intensive crops using normal spacing							
	Mango							
		Ha	Plantation-	0.180		0.000		
	b) Without Integration	Ha	Mant.(1)	0.033	10.00	0.330	6.00	0.198
		Ha	Mant.(2)	0.033		0.000	-	-
	Guava	Ha						

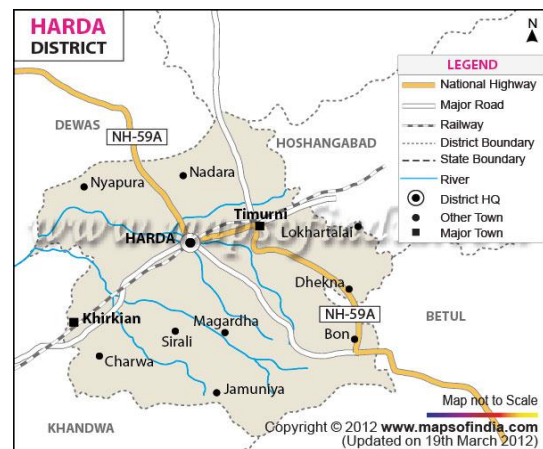
	b) Without Integration	Ha	Plantation	0.180	25.00	4.500	25.00	4.500
	Orange	Ha						
	a) Integrated package with drip irrigation	Ha	Plantation-	0.240	25.00	6.000	25.00	6.000
	b) Without Integration	Ha	Plantation-	0.180	50.00	9.000	50.00	9.000
		Ha	Mant.(1)-	0.05027	50.00	2.514	16.00	0.800
4	Flowers							
	i) Cut flowers	Ha	S&M Far.-	0.400	5.00	2.000	5.00	2.000
		Ha	Other Far.	0.250	8.00	2.000	8.00	1.998
	ii) Bulbulous flowers	Ha	S&M Far.	0.600	4.00	2.400	4.00	2.400
		Ha	Other Far.	0.375	5.00	1.875	5.00	1.875
	iii) Loose Flowers	Ha	S&M Far.	0.160	10.00	1.600	10.00	1.600
		Ha	Other Far.-	0.100	10.00	1.000	10.00	1.000
5	Spice (For a maximum of 2 ha per beneficiary)							
	i) Seed spice and Rhizomatic spices	Ha						
	a) Chilli	Ha		0.120	40.00	4.800	40.00	4.800
6	Protected cultivation							
	1. Green House structure							
	(a) Naturally ventilated system							
	i) Tubular structure	Ha		44.500	0.30	13.350		
		Ha		42.200	1.00	42.200	0.80	
	ii) Wooden structure	Ha		27.000		0.000		
	iii) Bamboo structure	Ha		22.500		0.000		
	2. Shade Net House							
	(a) Tubular structure	Ha		35.500		0.000		
	(b) Wooden structure	Ha		24.600	0.90	22.140	0.50	12.300
	3. Cost of planting material of high value vegetables grown in poly house							
	4. Cost of planting material & cultivation of Rose under poly house/shade net house							
	5. Plastic Mulching	Ha		0.160	25.00	4.000	25.00	3.993
7	Promotion of Integrated Nutrient Management(INM) Integrated Pest Management(IPM)							
	i) Promotion of IPM	Ha		0.012	100.00	1.200	100.00	1.000
8	Organic Farming							
	i) Vermi compost Units/organic input production) Bricks	Number		0.500	2.00	1.000	2.00	1.000
9	Horticulture Mechanization							
	a) Power tiller (below 8 BHP)	Number		0.400	3.00	1.200	-	-

	b) Power tiller (BHP above)	Number		0.600	12.00	7.200	-	-
10	i) Training of farmers							
	a) Within the State (3 days training)	No		0.015	415.00	6.225	502.00	7.530
	ii) Training / study tour of technical staff/ field functionaries	No				0.000		
	a) Within the State (3 days training)	No		0.009	8.00	0.072	8.00	0.072
	b) Study tour to progressive States/units (group of minimum 5 participants)	No		0.0363	5.00	0.181	5.00	0.200
11	Integrated Post Harvest Management							
	Pack house	No		2.000	3.00	6.000	3.00	4.000
	Low cost onion storage structure (25 MT)	No		0.875	10.00	8.750	8.00	2.620
12	Mission Management							
	State & Districts Mission Offices and implementing agencies for administrative expenses, project, preparation, computerization, contingency etc.					0.000		0.628
	State Level Saminar	No	3.00				1.00	3.000
	Information dissemination through publicity, printed literature etc and local advertisements			0.400	1.00	0.400	1.00	0.400
	<b>Grand Total</b>					-		-

## District- Harda

### Location

Harda District is a district of Madhya Pradesh. The town of Harda is the district headquarters. The district is part of Narmadapuram Division. The district of Harda has a total area of 998.41 sq. km. The district has a population of 4,74,416 (Census 2001). The district is situated 302m higher from the sea level. Its Geographic Position is between 21° 53' & 22° 36' Longitude and between 76° 47' & 77° 20' Latitude. Harda district is located in the southwestern part of Madhya Pradesh. It is



predominantly a tribal area where the Korku and the Gond tribal groups form two-thirds of the total population. In Harda district, there are Three main rivers namely the Narmada, Ganjaal & the Maachak.

### Forest Cover

Tropical dry deciduous forest with teak (*Tectona grandis*) as a dominant tree species occupies 50 per cent of the area of the Harda Forest Division (HFD). The total managed forest area of the division is 142,536 hectares of which 67 per cent (98318 hectares) is managed as Reserved Forest (RF) and the remaining 44,218 hectares, as Protected Forest (PF) category.

### Climate

The climate of Harda district is normal. All the seasons come in the district. An average height from the sea level is 302 mts. The district feels maximum temperature up to 47°C and minimum up to 12°C. The district has an average rain fall of 916 mm.

### Progress of the projects under NHM (MIDH)

Sl. No.	Components	Unit	2005-06	2014-15
			NHM	
<b>A .</b>	<b>Plantation Infrastructure Development</b>			
	<b>Production of Planting Material</b>			
	<b>Public Sector:</b>			
	Model Nursery (Big)	No.	-	2
	<b>Private Sector</b>			
	Model Nursery (Big)	No.	-	1
	Model Nursery (Small)	No.	-	1
	<b>Vegetable Seed Production</b>			
	Public Sector	Hect.	-	17.5
	Private Sector	Hect.	-	46.5
<b>B</b>	<b>Establishment of new gardens (Area expansion)</b>			
	Fruits	Hect.	-	828
	Flowers (For a maximum of 2 ha per beneficiary)	Hect.	-	419
	Spices (For a maximum area of 4 ha per beneficiary)	Hect.	-	870
	Rejuvenation of Old Orchard	Hect.	-	121
<b>C</b>	<b>Protected Cultivation</b>			
	Naturally Ventilated System			
	(i) Tubular structure	Hect.	-	3.292

	<b>Shade Net House</b>			
	(a) Tubular structure	Hect.	-	0.900
	(b) Wooden structure	Hect.	-	0.500
	<b>Plastic Mulching</b>	Hect.	-	386
<b>D</b>	<b>Organic Farming</b>			
	Vermi compost units / organic input production	No.	-	79
<b>E</b>	<b>Creation of Water Storage</b>	Nos.	-	9
<b>F</b>	<b>Post Harvest Management</b>			
	Pack House	Nos.	-	9
	Rural Market	Nos.	-	1
<b>G</b>	Horticulture Mechanization		-	11
<b>H</b>	<b>Human Resources Development (HRD)</b>			
	Training of farmers	Nos.	-	1425
	Exposure visit of farmers	Nos.	-	547

<b>Physical and Financial Target &amp; Achievement Under MIDH for the year 2014-15</b>								
<b>District - Harda</b>							<b>(Rs. In lakh)</b>	
<b>S. No.</b>	<b>Item</b>	<b>Unit</b>	<b>Description</b>	<b>Rate of assistance</b>	<b>Target</b>		<b>Achievement</b>	
					<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>
<b>1</b>	<b>Production of planting material</b>							
	<b>i) Upgrading nursery infrastructure to meet accreditation norms</b>	<b>No</b>	<b>Public-</b>	<b>10.000</b>	<b>1.00</b>	<b>10.00</b>	<b>1.00</b>	<b>4.28</b>
<b>2</b>	<b>Seed production for vegetables and spices</b>							
	<b>a) Open pollinated crops- (Vegetable)</b>	<b>Ha.</b>	<b>Public-</b>	<b>0.350</b>	<b>0.00</b>	<b>0.00</b>		
		<b>Ha.</b>	<b>Private-</b>	<b>0.1225</b>	<b>0.00</b>	<b>0.00</b>		
<b>3</b>	<b>Establishment of new gardens (Area expansion)</b>							
	<b>i) Banana (TC)</b>							
	<b>a) Integrated package with drip irrigation.</b>	<b>Ha.</b>		<b>0.900</b>	<b>25.00</b>	<b>22.50</b>	<b>25.00</b>	<b>22.50</b>
	<b>b) Without integration</b>	<b>Ha.</b>		<b>0.375</b>	<b>40.00</b>	<b>15.00</b>	<b>39.00</b>	<b>14.63</b>
	<b>c) Maintenance</b>	<b>Ha.</b>		<b>0.125</b>	<b>50.00</b>	<b>6.25</b>	<b>50.00</b>	<b>5.20</b>
	<b>ii) High density planting (mango, guava, litchi, pomegranate, apple, citrus etc).</b>							
	<b>a) Integrated package with drip irrigation-Guava</b>	<b>Ha.</b>	<b>Plantation-</b>	<b>0.360</b>	<b>10.00</b>	<b>3.60</b>		
	<b>iii) Fruit crops other than cost intensive crops using normal</b>							

	spacing							
	a) Without Integration	Ha.	Plantation	0.180	5.00	0.90	5.00	0.90
	Orange	Ha.						
	a) Integrated package with drip irrigation	Ha.	Plantation-	0.240	60.00	14.40		
	b) Without Integration	Ha.	Plantation-	0.180	100.00	18.00	15.00	2.70
		Ha.	Mant.(1) -	0.0502	50.00	2.51	34.00	1.70
4	Flowers	Ha.		0.200				
	i) Cut flowers	Ha.	S&M Far.-	0.400	5.00	2.00		
		Ha.	Other Far.	0.250	5.00	1.25		
	ii) Loose Flowers	Ha.	S&M Far.	0.160	10.00	1.60	10.00	1.60
		Ha.	Other Far.-	0.100	9.00	0.90	9.00	0.90
5	Spice (For a maximum of 2 ha per beneficiary)							
	i) Seed spice and Rhizomatic spices	Ha.				0.00		
	a) Chilli	Ha.		0.120	20.00	2.40	20.00	2.40
	b) Termeric	Ha.		0.120	15.00	1.80	15.00	1.80
6	Protected cultivation							
	1. Green House structure							
	(a) Naturally ventilated system					0.000		
	i) Tubular structure	Ha.		44.500	0.40	17.80	0.40	2.24
		Ha.		42.200	0.50	21.10		
	2. Shade Net House							
	(a) Tubular structure	Ha.		35.500	0.20	7.10		
	(b) Wooden structure	Ha.					0.50	
	3. Cost of planting material of high value vegetables grown in poly house	Ha.		7.000	0.50	3.50	0.50	
	4. Plastic Mulching	Ha.		0.160	90.00	14.40	90.00	3.04
7	Organic Farming							
	i) Vermi compost Units/organic input production) Bricks	Number		0.500	4.00	2.00	4.00	2.00
8	Horticulture Mechanization							
	Power tiller							

	a) Power tiller (below 8 BHP)	Number		0.400	3.00	1.20		
	b) Power tiller (BHP above)	Number		0.600	6.00	3.60		
9	Human Resource Development (HRD)							
	i) Training of farmers							
	a) Within the State (3 days training)	No		0.015	415.00	6.23	415.00	5.98
	ii) Training / study tour of technical staff/ field functionaries	No						
	a) Within the State (3 days training)	No		0.009	8.00	0.07		
	b) Study tour to progressive States/units (group of minimum 5 participants)	No		0.0363	5.00	0.18		
10	Mission Management							
	State & Districts Mission Offices and implementing agencies for administrative expenses, project, preparation, computerization, contingency etc.					0.00		2.54
	Information dissemination through publicity, printed literature etc and local advertisements			0.400	1.00	0.40	1.00	0.40
	<b>Grand Total</b>					<b>180.69</b>		<b>#####</b>

## District – Betul

Betul is one of the marginally located southern districts of Madhya Pradesh, lying almost wholly on the Satpura plateau. It occupies nearly the whole width of the Satpura range between the valley of the Narmada on the north and the Bhojpur plains on the south. It forms the southernmost part of the Bhopal Division. The District extends between 21-22 and 22-24 degrees North Latitude and between 77-10 and 78-33 degrees East Longitude and forms a compact shape, almost a square with slight projection on the East and the West. Two small enclaves of the district, viz., Batla blocks of the Govt. forests lie to the West between the districts of Nimar (East) and Amaraoti. These enclaves lie on the Northern bank of the Tapi. They extend from West to East between the Meridians 77-59 and 77-02.





## Boundaries

The District is bounded on the North by Hoshangabad, on the South by Amaroti of Maharashtra, on the East by Chhindwara District and on the West by the District of Hoshangabad, East Nimar and Amaroti. The Southern boundary of the district runs almost along the southern foothills of the melghat range, but excludes hattighat and Chikalda hills in Amaroti district. The Western boundary is associated for some distance with the Ganjal river (Southern), a tributary of Tapti, and then with the watershed line between the Morand and the Ganjal (Northern), the tributaries of the Narmada. The Northern boundary is marked by the course of the Morand river, and by the TAWA river beyond Dhodra Mohar Railway station. The Eastern Boundary runs through small streams and hills among which Khurpura and Rotia Nalas are of some significance.

## Origin

The district derives its name from the small town of Betul Bazar about 5 km south of Badnur, the Headquarters of the district. During the Maratha regime also, in the beginning of the British rule, Betul or Betul Bazar was the district Headquarters. In 1822 the District Headquarters was shifted to the present place, then only the village came to be known as Badnur Dhana, meaning Badnur village in the local dialect. Now, even after such a long time, not only the district retains the old name, but the name of the new Headquarters town, Badnur, as also been superimposed by "BETUL".

### **Progress of the projects under NHM (MIDH) and RKVY**

S.No.	Components	Unit	Achievements till January, 2015-16	
			Physical	Beneficiaries
<b>1.</b>	<b>Rejuvenation</b>			
	1. Mango	Ha.	381.00	404
	2. Oranage		1133.00	1031
<b>2.</b>	<b>INM/IPM</b>			
	1. Mango	Ha.	719.00	778
	2. Orange		1063.00	918
	3. Banana		65.00	76
<b>3.</b>	<b>Organic Farming</b>			
	1. Mango	Ha.	250.00	276
	2. Orange	Ha.	200.50	202
	3. Vegetable	Ha.	50.00	72
	4. Chilly	Ha.	100.00	198
<b>4.</b>	<b>HRD</b>			
	1. Within the State	No.	1942	1962
	2. Outside the State	No.	1362	1366

	3. Gardener Training Centre	No.	50	50
	4. Farmers Training Camp (1 day)	No.	6	300
	5. Farmers Training Camp (2 days)	No.	87	381
	6. State Tour of officers outside the State	No.	5	5
	7. Farmers Training (Inside the District)	No.	100	100
<b>5.</b>	<b>Planting Material Production</b>			
	1. Govt. Sector	No.	2	2
	2. Private Sector	No.	1	1
<b>6.</b>	<b>Vegetable Seed Production</b>			
	1. Govt. Sector	Ha.	31.866	-
	2. Private Sector	Ha.	80.00	129
<b>7.</b>	<b>Establishment of New Orchards</b>			
	1. Orange	Ha.	2529.65	2370
	2. Amla	Ha.	400.00	379
	3. Mango	Ha.	206.25	220
	4. Banana	Ha.	99.18	148
	5. Guava	Ha.	150.00	184
	6. Custard apple	Ha.	50.00	42
<b>8.</b>	Spices (Chilly)	Ha.	1485.00	2731
<b>9.</b>	Vermi-compost Units	No.	157	157
<b>10.</b>	Technology Dissemination	No.	2	2
<b>11.</b>	Zero Energy Cool Chamber	No.	25	25
<b>12.</b>	Onion Storage	No.	3	3
<b>13.</b>	<b>Flowers</b>			
	1. Cut Flower	Ha.	100.00.	247
	2. Bulb Flower	Ha.	125.00	283
	3. Loose Flower	Ha.	325.33	661
<b>14.</b>	Creation of Water Structures	No.	2	2
<b>15.</b>	Tissue Culture Lab Establishment	No.	1	1
<b>16.</b>	<b>Horticulture Mechanization</b>			
	1. Power driller (20 BHP with Rotavoter)	No.	3	3
	2. Power Driller (Above 20 BHP with Rotavoter)	No.	4	4
	3. Power Driller (Above 8	No.	1	1

	BHP)			
	4.Tractor (upto 20 PTO HP)	No.	1	1
<b>17.</b>	Protected Cultivation			
	Naturally Ventilated Tubelar Structure	Ha.	0.600	4
<b>18.</b>	<b>Post Harvest Management</b>			
	1. Pack House	No.	5.00	5

**Physical and Financial Target & Achievements Under MIDH for the year 2014-15**

<b>District - Betul</b>								
(Rs. In lakh)								
S. No.	Item	Unit	Description	Rate of assistance	Target		Achievement	
					Phy	Fin	Phy	Fin
<b>1</b>	<b>Production of planting material</b>							
	iii) Upgrading nursery infrastructure to meet accreditation norms	No	Public-	10.000	1.00	10.000		
<b>2</b>	<b>Seed production for vegetables and spices</b>							
<b>3</b>	<b>Establishment of new gardens (Area expansion)</b>							
	i) Banana (TC)							
	a) Integrated package with drip irrigation.	Ha		0.900	15.00	13.500	15.00	9.100
	b) Without integration	Ha		0.375	40.00	15.000	28.18	10.568
	c) Maintenance	Ha		0.125	25.00	3.125	3.50	0.438
	ii) High density planting (mango, guava, litchi, pomegranate, apple, citrus etc).	Ha						
	a) Integrated package with drip irrigation-Mango	Ha	Plantation -	0.360	20.00	7.200	18.00	3.280
	b) Without Integration- Mango	Ha	Plantation -	0.240		0.000		
		Ha	Mant.(1)-	0.080	5.00	0.400	3.00	0.240
		Ha	Mant.(2)-	0.080		0.000		
	iii) Fruit crops other than cost intensive crops using normal spacing	Ha						
	b) Without Integration	Ha	Plantation -	0.180		0.000		
		Ha	Mant.(1)	0.033	10.00	0.330	10.00	0.066
		Ha	Mant.(2)	0.033		0.000		
	<b>Orange</b>	Ha						
	a) Integrated package with drip irrigation	Ha	Plantation -	0.240	15.00	3.600		
	b) Without Integration	Ha	Plantation -	0.180	100.00	18.000	53.25	9.585
		Ha	Mant.(1)-	0.05027	40.00	2.011	5.00	0.251
		Ha	Mant.(2)-	0.05027		0.000		
<b>4</b>	<b>Flowers</b>	Ha						
	i) Cut flowers	Ha	S&M Far.-	0.400	5.00	2.000		
		Ha	Other Far.	0.250	5.00	1.250		
	ii) Bulbulous flowers	Ha	S&M Far.	0.600		0.000		
		Ha	Other Far.	0.375		0.000		
	iii) Loose Flowers	Ha	S&M Far.	0.160	20.00	3.200	20.00	3.185

		Ha	Other Far.-	0.100	10.00	1.000	10.00	0.997
5	Spice (For a maximum of 2 ha per beneficiary)	Ha						
	i) Seed spice and Rhizomatic spices	Ha				0.000		
	a) Chilli	Ha		0.120	40.00	4.800	40.00	4.799
6	Protected cultivation	Ha						
	1. Green House structure	Ha						
	(a) Naturally ventilated system	Ha						
	i) Tubular structure	Ha		53.000		0.000		
		Ha		46.750		0.000		
		Ha		44.500	0.20	8.900		
		Ha		42.200	0.50	21.100		
	2. Shade Net House							
	(a) Tubular structure	Ha		35.500	0.20	7.100		
7	Organic Farming							
	i) Vermi compost Units/organic input production) Bricks	No.		0.500	3.00	1.500	2.00	1.000
8	Horticulture Mechanization							
	Power tiller							
	a) Power tiller (below 8 BHP)	No.		0.400	3.00	1.200		
	b) Power tiller (BHP above)	No.		0.600	6.00	3.600	1.00	0.600
9	Human Resource Development (HRD)							
	i) Training of farmers							
	a) Within the State (3 days training)	No		0.015	415.00	6.225	383.00	3.495
	ii) Training / study tour of technical staff/ field functionaries	No						
	a) Within the State (3 days training)	No		0.009	7.00	0.063		
	b) Study tour to progressive States/units (group of minimum 5 participants)	No		0.0363	5.00	0.181	5.00	0.183
10	Integrated Post Harvest Management							
	Pack house	No		2.000	3.00	6.000	-	-
	Low cost onion storage structure (25 MT)	No		0.875	5.00	4.375	2.00	0.875
11	Mission Management							
	State & Districts Mission Offices and implementing agencies for administrative expenses, project, preparation, computerization, contingency etc.					0.000		
	Information dissemination through publicity, printed literature etc and local advertisements			0.400	1.00	0.400		
	<b>Grand Total</b>					146.060	598.930	48.662

## District- Chindwara

Chindwara district rank 1st in Madhya Pradesh state in area with total of 1181500 hectare and occupies 3.50% of the area of the state. The District is divided into 13 Tahsils and 11 Development blocks. There are 5 Nagar Palikas and 10 Nagar Panchayats. Apart from this there are 8 small towns in the district. Prominent tourist spots in the district include Pataalkot, Tamia, Tribal museum, Chota Mahadev caves, Devgarh fort, Nadadvvari, Hot water spring at Anthoni, Radhadevi caves and Jam Sanvali Temple (near Sousar).



### Location & Geographical Area.

Chhindwara district was formed on 1st November 1956. It is located on the south-west region of 'Satpuda range of mountains'. It is spread from 21.28 to 22.50 Deg. north (Longitude) and 78.15 to 79.25 Deg. East (Latitude) and spread over an area of 11, 81,500 hectare. This district is bound by the plains of Nagpur district (in Maharashtra) on the south, Hoshangabad and Narsingpur districts on the north, Betul district on the west and Seoni district on the east.

### Topography

The Chhindwara district covered with forest and it is classified into two categories dense forest and degraded forest. Dense forest is restricted to eastern and western part of the district. Degraded forest occur both the dense forested area and area close to other land use. There are five types of soils are present in the district. Alluvial soil is commonly associated with rivers and streams. Silty soil is occurring on the bank of river Kanhan near Sausar town. Lateritic Soil is occurring in the eastern and south-western part of the district. Sandy soil is associated with Pench and Kanhan rivers. Black cotton soil is occurring in the central, northern and southern parts of the district. Soil of recent origin is developed in low-lying valleys.

## Physical and Financial Target Under MIDH for the year 2014-15

District - Chhindwara					(Rs. In lakh)			
S. No.	Item	Unit	Description	Rate of assistance	Target		Achievement	
					Phy	Fin	Phy	Fin
1	Production of planting material					0.000		
	i) Upgrading nursery infrastructure to meet accreditation norms	No	Public-	10.000	1.00	10.000	1.00	1.630
2	vi) Seed production for vegetables and spices					0.000		
	a) Open pollinated crops-(Vegetable)	Ha	Public-	0.350	2.00	0.700	2.00	0.700
		Ha	Private-	0.1225	0.00	0.000		
3	Establishment of new gardens (Area expansion)	Ha				0.000		
	vii) Papaya	Ha				0.000		
	a) Integrated package with drip irrigation	Ha		0.600	40.00	24.000		
	b) Without integration	Ha		0.225	15.00	3.375	4.50	1.060
	c) Maintenance	Ha		0.050	25.00	1.250		
	ix) High density planting (mango, guava, litchi, pomegranate, apple, citrus etc).	Ha				0.000		
	a) Integrated package with drip irrigation-Mango	Ha	Plantation-	0.360	20.00	7.200	8.00	1.280
	b) Integrated package with drip irrigation-Lichi	Ha	Plantation-	0.180	5.00	0.900	5.00	0.900
	x) Fruit crops other than cost intensive crops using normal spacing					0.000		
	Guava							
	b) Without Integration	Ha	Plantation	0.180	10.00	1.800		
	Orange	Ha				0.000		
	a) Integrated package with drip irrigation	Ha	Plantation-	0.240	75.00	18.000		
	b) Without Integration	Ha	Plantation-	0.180	250.00	45.000	250.00	####
		Ha	Mant.(1)-	0.05027	250.00	12.568	250.00	5.920
4	Flowers	Ha				0.000		
	i) Cut flowers	Ha	S&M Far.-	0.400	6.00	2.400	6.00	2.400
		Ha	Other Far.	0.250	7.00	1.750	7.00	1.750
	ii) Bulbulous flowers	Ha	S&M Far.	0.600	5.00	3.000	5.00	3.000
		Ha	Other Far.	0.375	10.00	3.750	10.00	3.750
	iii) Loose Flowers	Ha	S&M Far.	0.160	25.00	4.000	25.00	3.900
		Ha	Other Far.-	0.100	20.00	2.000	20.00	1.850
5	V) Spice (For a maximum of 2 ha per beneficiary)					0.000		
	a) Chilli	Ha		0.120	40.00	4.800	40.00	4.790
6	Rejuvenation / replacement of senile plantation, canopy management	Ha		0.200	200.00	40.000	200.00	####

7	Protected cultivation	Ha				0.000		
	1. Green House structure	Ha				0.000		
	(b)Naturally ventilated system	Ha				0.000		
	i) Tubular structure	Ha	42.200	1.14	47.981	1.60		
	2. Shade Net House	Ha				0.000	88.35	####
	(a) Tubular structure	Ha	35.500	0.40	14.200			
	3. Plastic Tunnels	Ha	3.000	0.50	1.500			
	4. Walk in tunnels	Ha	30.000		0.000			
	8. Cost of planting material & cultivation of Vegetables under poly house/shade net house.	Ha	7.000	3.26	22.820	0.63	4.396	
	9. Cost of planting material & cultivation of Rose under poly house/shade net house	Ha	21.300		0.000			
	10. Plastic Mulching	Ha	0.160	100.00	16.000			
8	i) Promotion of IPM	Ha	0.012	100.00	1.200	100.00		
9	Organic Farming				0.000			
	iii) Vermi compost Units/organic input production) Bricks	Number	0.500	12.00	6.000	12.00	0.900	
10	Horticulture Mechanization							
	a) Power tiller (below 8 BHP)	Number	0.400	15.00	6.000			
	b) Power tiller (BHP above)	Number	0.600	25.00	15.000			
	Tractor/Power tiller (below 20 BHP) driven equipments							
	Self-propelled Horticulture Machinery	Number	1.000	10.00	10.000			
11	Human Resource Development (HRD)				0.000			
	a) Within the State (3 days training)	No	0.015	415.00	6.225	400.00	3.675	
	a) Within the State (3 days training)	No	0.009	7.00	0.063			
	b) Study tour to progressive States/units (group of minimum 5 participants)	No	0.0363	5.00	0.181			
12	Integrated Post Harvest Management							
	Pack house	No	2.000	8.00	16.000	8.00	6.000	
	Integrated pack house with facilities for conveyer belt, sorting, grading units, washing, drying and weighing.	No	17.500	2.00	35.000			
	Low cost onion storage structure (25 MT)	No	0.875		0.000			
13	Establishment of Marketing Infrastructure for horticultural produce in Govt./Private/ Cooperative sector				0.000			
	Functional Infrastructure for:	No			0.000			
	i) Collection, sorting/ grading, packing units etc.	No	6.000	1.00	6.000			
14	Mission Management				0.000			



State & Districts Mission Offices and implementing agencies for administrative expenses, project, preparation, computerization, contingency etc.					0.000		2.839
Information dissemination through publicity, printed literature etc and local advertisements			0.400	1.00	0.400	1.00	0.400
<b>Grand Total</b>				#####	391.06		####

**Field Verification of activities under NHM & RKVY in different districts**  
**District- Hoshangabad**

**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Shri Bhagat Singh S/o Shri Tulsi Ram, Vill: Sobhapur, Teh: Sohagpur.
2.	Total land available with the beneficiary (ha)	4.500 Ha
3.	Crop cluster under which covered	Mango
4.	Name and variety of crop planted	Dasahari, Mallika, Chousa
5.	Source of planting material	Horticulture Department
6.	Number of plants planted	150 plants
7.	Date/Year of planting	August, 2000
8.	Number of plants which survived :	95%
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	20,000/- as in kind
10.	Amount paid and date/year of payment	-
11.	Mode of payment	-
12.	Source of irrigation water	Tube well & Well
13.	Whether Drip, Sprinkler, system in use	Drip Irrigation
14.	Other inputs provided	-
15.	Whether assistance availed for organic farming	-
16.	If so , area covered	1,500 ha.
17.	Assistance availed	-
18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	-
20.	General upkeep of the plot (Very Good/Good/Average/Poor) :	Good
21.	Any other relevant observations by the J.I.T	Aware farmer
22.	Whether NHM Logo displayed	Yes

**Progress on Area Expansion and Rejuvenation Activities National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Shri Rajesh Kumar, S/o Shri Harparsad, Vill: Jhrimita, Teh: Sohagpur.
2.	Total land available with the beneficiary (ha)	3.500 Ha
3.	Crop cluster under which covered	Mango
4.	Name and variety of crop planted	Dasahari, Langda, Chousa, Bombay Green
5.	Source of planting material	Horticulture Department
6.	Number of plants planted	100 plants
7.	Date/Year of planting	July, 1999
8.	Number of plants which survived :	90%
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	20,000/- as in kind
10.	Amount paid and date/year of payment	-
11.	Mode of payment	-
12.	Source of irrigation water	Tube well & Well
13.	Whether Drip, Sprinkler, system in use	Drip Irrigation
14.	Other inputs provided	-
15.	Whether assistance availed for organic farming	-
16.	If so , area covered	1,000 ha.
17.	Assistance availed	-
18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	-
20.	General upkeep of the plot (Very Good/Good/Average/Poor) :	Good
21.	Any other relevant observations by the J.I.T	Farmer is so progressive
22.	Whether NHM Logo displayed	Yes

**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Shri Phool Chand S/o Shri Sankarlal, Vill: Bodi, Teh: Sohagpur.
2.	Total land available with the beneficiary (ha)	5.000 Ha
3.	Crop cluster under which covered	Guava
4.	Name and variety of crop planted	L-49
5.	Source of planting material	Horticulture Department

6.	Number of plants planted	1400 plants
7.	Date/Year of planting	July 2011-12
8.	Number of plants which survived	90%
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	
10.	Amount paid and date/year of payment	-
11.	Mode of payment	Cheque
12.	Source of irrigation water	River & Well
13.	Whether Drip, Sprinkler, system in use	Drip Irrigation
14.	Other inputs provided	-
15.	Whether assistance availed for organic farming	-
16.	If so , area covered	5,000 ha.
17.	Assistance availed	-
18.	Available marketing facility for the crop	Sold by auctionrket
19.	Other infrastructure available in the vicinity	-
20.	General upkeep of the plot (Very Good/Good/Average/Poor)	Good
21.	Any other relevant observations by the J.I.T	Aware farmer
22.	Whether NHM Logo displayed	Yes

**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Smt. Pusha Chandel, W/o Shri Abhilash, Vill: Sohagpur, Teh: Sohagpur.
2.	Total land available with the beneficiary (ha)	1.500 Ha
3.	Crop cluster under which covered	Guava (with high density)
4.	Name and variety of crop planted	L-49
5.	Source of planting material	Horticulture Department
6.	Number of plants planted	1111 plants
7.	Date/Year of planting	July 2013-14
8.	Number of plants which survived :	95%
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	
10.	Amount paid and date/year of payment	-
11.	Mode of payment	Cheque
12.	Source of irrigation water	Tube Well
13.	Whether Drip, Sprinkler, system in use	Drip Irrigation
14.	Other inputs provided	-
15.	Whether assistance availed for organic farming	-
16.	If so , area covered	1,000 ha.

17.	Assistance availed	-
18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	-
20.	General upkeep of the plot (Very Good/Good/Average/Poor)	: Very Good
21.	Any other relevant observations by the J.I.T	Very Progressive farmer
22.	Whether NHM Logo displayed	Yes

### Protected Cultivation

Sr. No.	Details	Remarks
1.	Name & Address of Beneficiary whose field visited	Shri Karan Sing Rajput, Vill: Dolariya, Block: Hoshangabad.
2.	Total land available with the beneficiary (ha)-	0.494 Ha.
3.	Type of protected Cultivation activity (Hi-Tech/Normal GH, Shade Net, Plastic tunnel....)	Hi-Tech Poly House
4.	Year of establishment	2014-15
5.	Size of Structure (Sq.m)	4000 Sq.m.
6.	Total Cost	33.76 lakh
7.	Agency involved in fabrication and installation	Natural Horticulture business, Gujarat.
8.	Total subsidy paid and date of payment	Awaited
9.	Crop being grown	-
10.	Condition of Structure	Good
11.	Condition of Crop	-
12.	Tie up with market	Buyback agreement with Natural Horticulture Business, Gujarat
13.	General upkeep (Very good/Good/Average/Poor)	Good
14.	Any other relevant observation by JIT	-

### HRD

Supervisors/ Gardeners / Entrepreneurs training (Tick appropriate)

Sr. No.	Details	Remarks
1.	Name of the project :	Farmer Training
2.	Year of Implementation :	2015-16
3.	Project Period :	3 days
4.	Name of Implementing Agency:	Accenture
5.	Location of project:	Powerkheda and Vill: Jamuniya Nursery
6.	Total project cost:	-

7.	Amount Released by DAC:	0.93 Lakh
8.	Expenditure incurred:	0.93 Lakh
9.	Status	-
	• Date of Commencement	04.01.16
	• Date of completion	06.01.16
	• No. of persons trained:	62
10.	Condition of facilities	Good
	Class room & teaching aids:	Provide class room & Accenture experts
	Hostel:	-
	Boarding	Yes
11.	No. of teaching faculty	2
12.	Whether facility available for hands on training	Yes
13.	Details Course curriculum used	Vegetable & fruit crop
14.	Whether any feed back from trainees maintained	-
15.	Whether certificate issue	-
16.	Funds disbursed	0.93 Lakh

#### **Organic farming / Vermi composting Units**

<b>Sl. No.</b>	<b>Details</b>	<b>Remarks</b>
1.	Name of the project :Vermi Composting Units	Three Units
2.	Year of Implementation :	2014-15
3.	Project Period :	One month
4.	Name of Implementing Agency:	Made by beneficiary
5.	Location of project:	1. Vill: Bodi, Block: Sohagnagar 2. Vill: Bhimgoun, Block: Sionemalwa 3. Vill: Rajon Block Babai.
6.	Total project cost:	60,000/-
7.	Amount Released by DAC:	30,000/- each
8.	Expenditure incurred:	30,000/- each
9.	Status	
	• Crop covered	Vegetable & fruit crops
	• No. of farmers involved	Three
	• Name & Address of Certifying agency	Horticulture Department
	• Whether any certificate issued	-
10.	Whether funds disbursed	Yes

### Post Harvest Management (J.I.T)

(Pack house/ Cold Storage/ CA storage/ Ref. Van/Primary/mobile Processing Unit)

Sr. No.	Details	Remarks
1.	Name of the project :	Pack House -Three Units
2.	Year of Implementation :	2013-14
3.	Project Period :	Four months
4.	Name of Implementing Agency:	Made by beneficiary
5.	Location of Project:	1. Vill: Nemanmuda & Semri Harchand, Block: Sohagpur. 2. Vill; Bisonikhurd, Block: Seonimalwa.
6.	Total project cost:	3.00 lakh each
7.	Amount Released by DAC:	1.50 lakh each
8.	Expenditure incurred:	4.50 lakh
9.	Status	
	• Capacity of unit	5 mt. ton
	• Commodity	600 sq.ft.
	• Condition of infrastructure	Good
	• Whether NHM Logo displayed	Yes
	• Whether funds disbursed	Yes

### Harda

#### Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Shri Radharaman Tiwari Vill: Malpon (Handia) Block: Harda
2.	Total land available with the beneficiary (ha)	4 Acre
3.	Crop cluster under which covered	Handia (Harda)
4.	Name and variety of crop planted	G-9, Banana & Orange
5.	Source of planting material	Jain Co (MH)
6.	Number of plants planted	-
7.	Date/Year of planting	Oct.-July
8.	Number of plants which survived :	85%
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs.150000.00
10.	Amount paid and date/year of payment	March 2013
11.	Mode of payment	RTGS
12.	Source of irrigation water	River

13.	Whether Drip, Sprinkler, system in use	Drip/Sprinkler
14.	Other inputs provided	No
15.	Whether assistance availed for organic farming	Yes
16.	If so , area covered	4.00 Ha.
17.	Assistance availed	-
18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	-
20.	General upkeep of the plot (Very Good/Good/Average/Poor)	: Good
21.	Any other relevant observations by the J.I.T	-
22.	Whether NHM Logo displayed	Yes

### Post Harvest Management (J.I.T)

(Pack house/ Cold Storage/ CA storage/ Ref. Van/Primary/mobile Processing Unit)

Sr. No.	Details	Remarks
1.	Name of the project :	Pack House
2.	Year of Implementation :	2012-13
3.	Project Period :	2012-13
4.	Name of Implementing Agency:	NHM
5.	Location of Project:	Harda
6.	Total project cost:	3,26,0.00/-
7.	Amount Released by DAC:	1.50,000/-
8.	Expenditure incurred:	3,26,000/-
9.	Status	Good
	• Capacity of unit	-
	• Commodity	-
	• Condition of infrastructure	-
	• Whether NHM Logo displayed	Yes
	• Whether funds disbursed	Yes

### Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	<b>Shri Santosh Patel, Vill: Harda Khurd, Block: Harda</b>
2.	Total land available with the beneficiary (ha)	1 Acre
3.	Crop cluster under which covered	Chilli
4.	Name and variety of crop planted	Chilly (QS 611, VNR 109, VNR 145)
5.	Source of planting material	Indore

6.	Number of plants planted	27,000
7.	Date/Year of planting	20.11.2015
8.	Number of plants which survived :	22,000/-
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Self planted
10.	Amount paid and date/year of payment	-
11.	Mode of payment	RTGS
12.	Source of irrigation water	Tubewell
13.	Whether Drip, Sprinkler, system in use	Drip
14.	Other inputs provided	-
15.	Whether assistance availed for organic farming	Yes
16.	If so , area covered	2.00 Ha.
17.	Assistance availed	-
18.	Available marketing facility for the crop	Indore, Bhopal, Ujjain
19.	Other infrastructure available in the vicinity	-
20.	General upkeep of the plot (Very Good/Good/Average/Poor) :	Very Good
21.	Any other relevant observations by the J.I.T	Drip, Mulching, Mechanization
22.	Whether NHM Logo displayed	Yes

#### Area Expansion Vegetable

Sr. No.	Details	Remarks
1.	Name of the project :	NHM
2.	Year of Implementation :	2015-16
3.	Project Period :	2015-16
4.	Name of Implementing Agency:	NHM
5.	Location of project:	Field of farmer (Chilli)
6.	Total project cost:	Rs. 64,000/-
7.	Amount Released by DAC:	Rs. 32,000/-
8.	Expenditure incurred:	Rs.69,000/-
9.	Status of project	Good
10	Name of Nursery and crops for which plants are produced	Self
11	Name of crops for which seeds produced	Chilli
12	Quantity produced	Very good
13	Quantity sold	10 quintal
14	Rate	Rs. 35/- per Kg. green chilli
15	Amount realizes through sale	Self
16	Whether NHM logo displayed:	yes



**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Smt. Suman Patel, Vill: Harda Khurd, Block: Harda
2.	Total land available with the beneficiary (ha)	2 Acres
3.	Crop cluster under which covered	Chilli
4.	Name and variety of crop planted	Chilly (QS 611,VNR 109, VNR145)
5.	Source of planting material	Indore
6.	Number of plants planted	27,000
7.	Date/Year of planting	20.11.2015
8.	Number of plants which survived	22,000/-
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Self planted
10.	Amount paid and date/year of payment	March 2015
11.	Mode of payment	RTGS
12.	Source of irrigation water	Tubewell, Canal
13.	Whether Drip, Sprinkler, system in use	Drip
14.	Other inputs provided	-
15.	Whether assistance availed for organic farming	Yes
16.	If so , area covered	3.00 Ha.
17.	Assistance availed	-
18.	Available marketing facility for the crop	Indore, Bhopal, Ujjain
19.	Other infrastructure available in the vicinity	-
20.	General upkeep of the plot (Very Good/Good/Average/Poor)	Very Good
21.	Any other relevant observations by the J.I.T	Drip, Mulching, Mechanization
22.	Whether NHM Logo displayed	Yes

**Area Expansion – Vegetable**

Sr. No.	Details	Remarks
1.	Name of the project :	NHM
2.	Year of Implementation :	2015-16
3.	Project Period :	2015-16
4.	Name of Implementing Agency:	NHM
5.	Location of project:	Chilli Field
6.	Total project cost:	Rs. 32,000/-
7.	Amount Released by DAC:	Rs. 16,000/-
8.	Expenditure incurred:	Rs.32,000/-

9.	Status of project	Good
10	Name of Nursery and crops for which plants are produced	Self
11	Name of crops for which seeds produced	Chilli
12	Quantity produced	10 Quintal Very good
13	Quantity sold	10 quintal
14	Rate	Rs. 35/- per Kg. green chilli
15	Amount realizes through sale	-
16	Whether NHM logo displayed:	yes

### **Nursery- Activities under Horticulture Mission for National Horticulture Mission**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Shri Sankar Singh Solanki, Vill: Kuhigwadi, Block:
2.	Total land available with the beneficiary (ha)	4 Ha.
3.	Mother Blocks	Bamboo, Aonla, Chiku, Banana,
4.	Name and variety of crop planted	Katanga, G-9, Cricket ball
5.	Source of planting material	Govt. nursery
6.	Number of plants planted	-
7.	Date/Year of planting	2010-11
8.	Number of plants which survived :	80%
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	9.00 lakhs
10.	Amount paid and date/year of payment	2010-11
11.	Mode of payment	Cheque
12.	Source of irrigation water	Tubewell,
13.	Whether Drip, Sprinkler, system in use	Drip Irrigation
14.	Other inputs provided	Yes
15.	Whether assistance availed for organic farming	Organic farming
16.	If so , area covered	4.00 Ha.
17.	Assistance availed	-
18.	Available marketing facility for the crop	Local Market
19.	Other infrastructure available in the vicinity	-
20.	General upkeep of the plot : (Very Good/Good/Average/Poor)	Very Good
21.	Any other relevant observations by the J.I.T	Food processing
22.	Whether NHM Logo displayed	Yes

**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Malti Gurjar, Vill: Muhadiya, Block: Khirkiya
2.	Total land available with the beneficiary (ha)	0.638Hec.
3.	Crop cluster under which covered	Capsicum
4.	Name and variety of crop planted	Pikadour
5.	Source of planting material	Nasik
6.	Number of plants planted	32000 plants
7.	Date/Year of planting	Sept., 2015
8.	Number of plants which survived :	90%
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	492,000/-
10.	Amount paid and date/year of payment	492,000/- 2014-15
11.	Mode of payment	RTGS
12.	Source of irrigation water	Openwell
13.	Whether Drip, Sprinkler, system in use	Drip
14.	Other inputs provided	-
15.	Whether assistance availed for organic farming	Yes
16.	If so , area covered	2000 Sq.m.
17.	Assistance availed	-
18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	-
20.	General upkeep of the plot (Very Good/Good/Average/Poor) :	Very Good
21.	Any other relevant observations by the J.I.T	-
22.	Whether NHM Logo displayed	Yes

**Protected Cultivation**

Sr. No.	Details	Remarks
1.	Name & Address of Beneficiary whose field visited	Shri Malti Gurjar, Vill:Muhadiya, Taluk: Khirkiya, Distt: Harda
2.	Total land available with the beneficiary (ha)	0.638 Ha.
3.	Type of protected Cultivation activity (Hi-Tech/Normal GH, Shade Net, Plastic tunnel....)	Shadenet House (wooden structure)
4.	Year of establishment	2014-15
5.	Size of Structure (Sq,m)	2000
6.	Total Cost	9,84,000/-
7.	Agency involved in fabrication and installation	Shree Balaji Hoticulture Inst.

		Producer house, hanlapur, Betul
8.	Total subsidy paid and date of payment	4,92,000/- (29.9.15)
9.	Crop being grown	Capsicum
10.	Condition of Structure	Good
11.	Condition of Crop	Very Good
12.	Tie up with market	Local market
13.	General upkeep (Very good/Good/Average/Poor)	Very Good
14.	Any other relevant observation by JIT	Organic farming

### **Protected Cultivation**

<b>Sr. No.</b>	<b>Details</b>	<b>Remarks</b>
1.	Name of the project :	NHM
2.	Year of Implementation :	2012-13
3.	Project Period :	3 Years
4.	Name of Implementing Agency:	Self
5.	Location of project:	-
6.	Total project cost:	Rs. 18.00 lakh
7.	Amount Released by DAC:	Rs. 9.00 lakh -
8.	Expenditure incurred:	-
9.	Status of project	Good
10	Name of Nursery and crops for which plants are produced	Modern Nursery Bamboo
11	Name of crops for which seeds produced	Bamboo (1.00 crore)
12	Quantity produced	Rs. 1 lakh
13	Quantity sold	-
14	Rate	Rs. 13/- per plant
15	Amount realizes through sale	-
16	Whether NHM logo displayed:	yes

### **Distt: Chhindwara**

#### **Area Expansion and Rejuvenation Activities under National Horticulture Mission**

<b>Sl. No.</b>	<b>Details</b>	<b>Remarks</b>
1.	Name and address of beneficiary whose field visited	<b>Shri Dhana Ram, Parsia Betul Block: Mohkhed, CWA.</b>
2.	Total land available with the beneficiary (ha)	1.279 Ha.
3.	Crop cluster under which covered	-
4.	Name and variety of crop planted	Nagpuri Santra
5.	Source of planting material	Horticulture Department

6.	Number of plants planted	140 plants
7.	Date/Year of planting	28.7.2011 (2011-12)
8.	Number of plants which survived	110 plants (79%)
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	14.000.00
10.	Amount paid and date/year of payment	-
11.	Mode of payment	By Cheque
12.	Source of irrigation water	Well
13.	Whether Drip, Sprinkler, system in use	Flood Irrigation
14.	Other inputs provided	No
15.	Whether assistance availed for organic farming	No
16.	If so , area covered	No
17.	Assistance availed	Yes
18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	No
20.	General upkeep of the plot (Very Good/Good/Average/Poor)	: Good
21.	Any other relevant observations by the J.I.T	-
22.	Whether NHM Logo displayed	No

**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	<b>Shri Kuar Lal, Parsia Betul Block: Mohkhed, CWA.</b>
2.	Total land available with the beneficiary (ha)	1.55 Ha.
3.	Crop cluster under which covered	-
4.	Name and variety of crop planted	Nagpuri Santra
5.	Source of planting material	Horticulture Department
6.	Number of plants planted	280 plants
7.	Date/Year of planting	16.7.2014 (2014-15)
8.	Number of plants which survived	: 260 plants (93%)
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	18000+5000+ 23000/-
10.	Amount paid and date/year of payment	-
11.	Mode of payment	Bank Transfer
12.	Source of irrigation water	Well
13.	Whether Drip, Sprinkler, system in use	Flood Irrigation
14.	Other inputs provided	No
15.	Whether assistance availed for organic farming	No
16.	If so , area covered	No
17.	Assistance availed	Yes

18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	No
20.	General upkeep of the plot : (Very Good/Good/Average/Poor)	Good
21.	Any other relevant observations by the J.I.T	-
22.	Whether NHM Logo displayed	No

**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	<b>Shri Shiv Nath, Parsia Betul Block: Mohkhed, CWA.</b>
2.	Total land available with the beneficiary (ha)	1.623 Ha.
3.	Crop cluster under which covered	-
4.	Name and variety of crop planted	Nagpuri Santra
5.	Source of planting material	Horticulture Department
6.	Number of plants planted	280 plants
7.	Date/Year of planting	27.7.2011 (2011-12)
8.	Number of plants which survived :	268 plants (96%)
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	28.000.00
10.	Amount paid and date/year of payment	-
11.	Mode of payment	By Cheque
12.	Source of irrigation water	Well
13.	Whether Drip, Sprinkler, system in use	Flood Irrigation
14.	Other inputs provided	No
15.	Whether assistance availed for organic farming	No
16.	If so , area covered	-
17.	Assistance availed	Yes
18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	No
20.	General upkeep of the plot :	Good
21.	Any other relevant observations by the J.I.T	-
22.	Whether NHM Logo displayed	-

**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Shri Nitin,, Sawari Bajar
2.	Total land available with the beneficiary (ha)	18.69 Ha.

3.	Crop cluster under which covered	-
4.	Name and variety of crop planted	Potato (Pukharaj)
5.	Source of planting material	Local market
6.	Number of plants planted	100 Quintal
7.	Date/Year of planting	2 <sup>nd</sup> Oct., 2015 (2014-15)
8.	Number of plants which survived :	All
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	3,22,010
10.	Amount paid and date/year of payment	-
11.	Mode of payment	By cheque
12.	Source of irrigation water	Well
13.	Whether Drip, Sprinkler, system in use	Drip Irrigation
14.	Other inputs provided	No
15.	Whether assistance availed for organic farming	No
16.	If so , area covered	Yes
17.	Assistance availed	Yes
18.	Available marketing facility for the crop	Govt. Mandi
19.	Other infrastructure available in the vicinity	No
20.	General upkeep of the plot (Very Good/Good/Average/Poor) :	Very Good
21.	Any other relevant observations by the J.I.T	No
22.	Whether NHM Logo displayed	Yes

**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Shri Kamal Pate, Village: Bisapur Khurd, Block: Mohkhed.
2.	Total land available with the beneficiary (ha)	9.71 Ha.
3.	Crop cluster under which covered	-
4.	Name and variety of crop planted	Chilli, US- 611
5.	Source of planting material	Horticulture Department
6.	Number of plants planted	188 gm. seed
7.	Date/Year of planting	27.8.2015
8.	Number of plants which survived :	85%
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	9375/-
10.	Amount paid and date/year of payment	-
11.	Mode of payment	Kinds
12.	Source of irrigation water	Well
13.	Whether Drip, Sprinkler, system in use	Drip Irrigation

14.	Other inputs provided	Yes
15.	Whether assistance availed for organic farming	No
16.	If so , area covered	Yes
17.	Assistance availed	Yes
18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	No
20.	General upkeep of the plot (Very Good/Good/Average/Poor)	: Very Good
21.	Any other relevant observations by the J.I.T	No
22.	Whether NHM Logo displayed	Yes

**Progress on Area Expansion and Rejuvenation Activities under National Horticulture Mission (NHM)**

Sl. No.	Details	Remarks
1.	Name and address of beneficiary whose field visited	Shri Tod Singh Salaiya, Block: Chindwara.
2.	Total land available with the beneficiary (ha)	5.969 Ha.
3.	Crop cluster under which covered	-
4.	Name and variety of crop planted	Bagro Anar
5.	Source of planting material	Horticulture Department
6.	Number of plants planted	1334 plants
7.	Date/Year of planting	2014-2015
8.	Number of plants which survived	: 1334 plants
9.	Total amount of subsidy assistance due to the beneficiary as (Rs.)	36,000+10,000 = 46,000.
10.	. Amount paid and date/year of payment	-
11.	Mode of payment	Kinds & Cheque
12.	Source of irrigation water	Well
13.	Whether Drip, Sprinkler, system in use	Drip Irrigation
14.	Other inputs provided	No
15.	Whether assistance availed for organic farming	No
16.	If so , area covered	Yes
17.	Assistance availed	Yes
18.	Available marketing facility for the crop	Local market
19.	Other infrastructure available in the vicinity	No
20.	General upkeep of the plot (Very Good/Good/Average/Poor)	: Good
21.	Any other relevant observations by the J.I.T	No
22.	Whether NHM Logo displayed	Yes



### Protected Cultivation

Sr. No.	Details	Remarks
1.	Name & Address of Beneficiary whose field visited	Shri Shardrab Chohan, Vill: Gadarwada, Block: Mohked , CWA (M.P.)
2.	Total land available with the beneficiary (ha)	4.322 Ha.
3.	Type of protected Cultivation activity (Hi-Tech/Normal GH, Shade Net, Plastic tunnel....)	Poly House
4.	Year of establishment	2014-15
5.	Size of Structure (Sq,m)	4000 Sq.m.
6.	Total Cost	33,76,000/-
7.	Agency involved in fabrication and installation	Kumar Florest Puna
8.	Total subsidy paid and date of payment	1688,000/-
9.	Crop being grown	Garbera Cultivation
10.	Condition of Structure	Very Good
11.	Condition of Crop	Very Good
12.	Tie up with market	Yes
13.	General upkeep (Very good/Good/Average/Poor)	Very Good
14.	Any other relevant observation by JIT	-

### Protected Cultivation

Sr. No.	Details	Remarks
1.	Name & Address of Beneficiary whose field visited	Shri Serpath Pate, Vill: Bisapur Khurd, , Block: Mohked
2.	Total land available with the beneficiary (ha)	4.277 Ha.
3.	Type of protected Cultivation activity (Hi-Tech/Normal GH, Shade Net, Plastic tunnel....)	Plastic Mulching
4.	Year of establishment	2001
5.	Size of Structure (Sq,m)	2 Ha
6.	Total Cost	75,000
7.	Agency involved in fabrication and installation	-
8.	Total subsidy paid and date of payment	20,000
9.	Crop being grown	Tomato, Chilli, Capsicum
10.	Condition of Structure	Average
11.	Condition of Crop	Very Good
12.	Tie up with market	No
13.	General upkeep (Very good/Good/Average/Poor)	Very Good
14.	Any other relevant observation by JIT	No logo



**Field photographs during field verification of activities of NHM in Hoshangabad District**



**Field photographs during field verification of activities of NHM in Harda District**





**Field photographs during field verification of activities of NHM in Betul District**



**Field photographs during field verification of activities of NHM in Chhindwara District**

